QC ABSTRACT

NAME OF WORK: Filling of Potholes in Ward No. 07 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 12-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyaranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-11-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	10-11-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	319	319	2.9	97.1	95-100
22.4	2262	2581	23.5	76.5	60-80
11.2	2172	4753	43.2	56.8	40-60
4.75	2235	6988	63.5	36.5	25-40
2.36	1632	8620	78.4	21.6	15-30
0.6	635	9255	84.1	15.9	8-22
0.075	1325	10580	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-03-25-36**	**Date: 12-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura	
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097	
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-11-21	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	10-11-21	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.5	74.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.2
5	Aggregate impact value	(B/A)*100	24.5	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 12-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-11-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	10-11-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.1%	

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	15-11-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.6	1.4	98.4	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 11-11-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-19
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	09-11-19
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	504	3269	65.4	34.6	26-38
0.3	528	3797	75.9	24.1	18-28
0.15	496	4293	85.9	14.1	12-20
0.075	350	4643	92.9	7.1	4-10
PAN	355	4998	100	0.0	0

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Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	15-11-21

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.6	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.6		
Strength	Aggregate Impact Value	22.5	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.64	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.25	Maximum 2%	IS:2386 Part III

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Authorized Signatory
Quallity Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	15-11-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.16	11.15	10KN(min)
2	Marshal flow at 60°C, mm	3.54	3.56	2-4
3	Percent air Voids	4.81	4.76	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.26	14.35	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.89	71.52	65-75
6	Density, g/cc	2.25	2.26	–

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-03-25-36**	**Date: 25-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura	
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097	
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	24-11-21	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	24-11-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	467	466
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.60	6.80
4	Average percentage	%	6.7	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Lab ID : **CP-RW-2022-03-25-36** **Date: 25-11-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 467

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	66	70	15.0	85.0	70-88
4.75	116	186	39.8	60.2	53-71
2.36	83	269	57.6	42.4	42-58
1.18	25	294	63.0	37.0	34-48
0.6	11	305	65.3	34.7	26-38
0.3	42	347	74.3	25.7	18-28
0.15	45	392	83.9	16.1	12-20
0.075	56	448	95.9	4.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 466

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.2	85.8	70-88
4.75	117	183	39.3	60.7	53-71
2.36	86	269	57.7	42.3	42-58
1.18	29	298	63.9	36.1	34-48
0.6	15	313	67.2	32.8	26-38
0.3	46	359	77.0	23.0	18-28
0.15	48	407	87.3	12.7	12-20
0.075	55	462	99.1	0.9	4-10

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Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-03-25-36**	**Date: 01-12-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura	
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097	
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	30-11-21	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	30-11-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.00
4	Average percentage	%	6.1	

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Kodigehalli Sub Division
BBMP, Bangalore

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Date.....
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-RW-2022-03-25-36** **Date: 01-12-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	64	68	14.5	85.5	70-88
4.75	119	187	39.9	60.1	53-71
2.36	82	269	57.4	42.6	42-58
1.18	26	295	62.9	37.1	34-48
0.6	13	308	65.7	34.3	26-38
0.3	44	352	75.1	24.9	18-28
0.15	46	398	84.9	15.1	12-20
0.075	57	455	97.0	3.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	65	71	15.1	84.9	70-88
4.75	113	184	39.1	60.9	53-71
2.36	80	264	56.2	43.8	42-58
1.18	25	289	61.5	38.5	34-48
0.6	16	305	64.9	35.1	26-38
0.3	48	353	75.1	24.9	18-28
0.15	46	399	84.9	15.1	12-20
0.075	59	458	97.4	2.6	4-10

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 20-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer's Reference	:	BBMP/EE/BTP/WO/37/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-11-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	18-11-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.4**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**248**	Min. 220°C
	Fire point, °C	**263**	

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Authorized Signatory
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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-03-25-36** **Date: 19-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Potholes in Ward No. 07 Byatarayanapura
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/37/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	18-11-21
Type of Mix	:	Tack coat
Date of Test	:	18-11-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.748	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.77	0.769
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.021
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.233
7	Average	Kg/sq.m	0.239	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report